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MCDONNELL AIRCRAFT COMPANY
Box 516, Saint Louis, Missouri 63166 (314) 232-0232

17 January 1983



Robert L. Morby, Chief
Waste Management Branch
Air and Waste Management Division
United States Environmental Protection Agency
324 East Eleventh Street
Kansas City, Missouri 64106

Reference: R. L. Morby Letter to J. C. Patterson dated 01 December 1982

Enclosure: Four (4) Copies of Figure B-3, entitled "Tract I Facility Plan" revised 14 January 1983

REGISTERED MAIL - RETURN RECEIPT

Dear Mr. Morby:

This letter is in response to your referenced letter. In that letter, you indicated that segments of our Part "B" RCRA application were considered to be incomplete. In this letter, we will list your comments and our responses. These are as follows:

Comment: 1. The locations of the hazardous waste storage units within the facility must be specified (40 CFR 122.25 (a)(19)(x) and (xii)). Locations have not been clearly defined.

Reply: Attached you will find four (4) copies of Figure B-3, "Tract I Facility Plan", revised 14 January 1983. The revision has added site identifications per your request.

A copy of this letter is being forwarded to Missouri DNR, along with five (5) copies of the revised Figure B-3.

Comment: 2. The estimated volume of traffic (number and type of vehicles) must be submitted. (40 CFR 122.25 (a)(10))

Reply: The estimated volume of daily traffic at the specified storage areas follows on the next page.

Container Area No. 1 - 30 tugs/forklifts; 3 cars/trucks; 0 aircraft.
Container Area No. 2 - 6 tugs/forklifts; 6 cars/trucks; 0 aircraft.
*Tanks H-19 and H-20 - 10 tugs/forklifts; 1 car/truck; 0 aircraft.
Tanks H-12, 13, 14, 15, 16 - 10 tugs/forklifts; 1 car/truck; 0 aircraft.
Tanks H-1, 2, 3, 4, 5, 6, - 9 tugs/forklifts; 1 car/truck; 0 aircraft.
*Hush House Waste Tank - 4 tugs/forklifts; 0 cars/trucks; 0 aircraft.
*Fuel Pit No. 3 Waste Tank - 2 tugs/forklifts; 0 cars/trucks; 2 aircraft.
*F-18 Silencer Waste Tank - 1 tug/forklift; 0 cars/trucks; 0 aircraft.
*Bldg. 28 Waste Tank - 0 tugs/forklifts; 0 cars/trucks; 0 aircraft.
*Bldg. 6 Waste Oil Tank - 0 tugs/forklifts; 0 cars/trucks; 0 aircraft.
Bldg. 14 Sludge Holding Tank - 0 tugs/forklifts; 1 car/truck; 0 aircraft.

* Waste from these areas is recycled, and therefore is exempt from federal hazard waste regulation under RCRA.

Comment: 3. The contingency plan must include an evaluation plan or the rationale for why an evacuation plan is not necessary (40 CFR 264.52(f)).

Reply: Section G, Page G-21 references "Emergency Plan No. 4 - Building Emergency Actions and Procedures".

We believe that our "Emergency Plan" on Pages G-23 through G-28 contains the necessary information concerning an evacuation plan.

This referenced emergency plan contains a section, on Page G-28, entitled "General Emergency Evacuation Instructions".

Comment: 4. The necessary tank design information is not provided in the application. This information should include:

a. Reference to a design standard or other information used in the design and construction of the tank;

b. Tank dimensions, capacity, and shell thickness for all tanks;

c. Diagrams of piping, instrumentation and process flow;

d. Descriptions of feed systems, safety cutoffs, bypass systems, overflow control, and pressure controls.

Reply: The following is supplied for your information.

| TANK DESCRIPTION | DISPOSAL METHOD | REGULATIONS APPLICABLE | CATEGORY |
|---|---|---|---|
| Two 10,000-gallon-capacity tanks designated as H-19 and H-20 | Recycle | DNR | RCRA Exempt |
| Five 500-gallon-capacity tanks designated as H-12, H-13, H-14, H-15, H-16 | T.S.D.F. | DNR and EPA | -- |
| Six 750-gallon-capacity tanks designated as H-1, H-2, H-3, H-4, H-5, H-6 | T.S.D.F. | DNR and EPA | -- |
| One 3,000-gallon-capacity tank designated as "Hush House Waste Tank" | Recycle | DNR | RCRA Exempt |
| One 2,000-gallon-capacity tank designated as "Fuel Pit No. 3 Waste Tank" | Recycle | DNR | RCRA Exempt |
| One 2,000-gallon-capacity tank designated as "F-18 Silencer Waste Tank" | Recycle | DNR | RCRA Exempt |
| One 5,000-gallon-capacity tank designated as "Bldg. 28 Waste Tank" | Recycle | DNR | RCRA Exempt |
| One 1,000-gallon-capacity tank designated as "Bldg. 6 Waste Oil Tank" | Recycle | DNR | RCRA Exempt |
| One 120,000-gallon-capacity tank designated as "Bldg. 14 Sludge Holding Tank" | T.S.D.F. | DNR and EPA | -- |

| TANK DESCRIPTION | STANDARD DESIGN | TANK DETAILS | | | DESCRIPTION OF FEED SYSTEMS, SAFETY CUTOFFS, BYPASS SYSTEMS, OVERFLOW CONTROL AND PRESSURE CONTROL |
|---|---|---|---|---|---|
| | | DIMENSIONS | MAXIMUM CAPACITY | SHELL THICKNESS | |
| Five 500-gallon-capacity, open-top, vertical, self-supporting flat bottom, cylindrical above-ground tanks. Designated as Tanks H-12, H-13, H-14, H-15, and H-16. | U.S. Plastic Corporation | 48" dia. x 71" high | 555 gallons | 1/4" | Waste solution comes from one of two process tanks. Each tank contains 540 gallons. When the solution in either of these two tanks is declared waste, the on-site pipe-fitter is notified to transfer this solution into the waste storage tanks. This transfer is accomplished with a continuous recirculating process tank pump via valving and schedule 80 CPVC piping. In the event of emergency, the valves may be closed and/or the pump stopped. These storage tanks are covered with loose-fitting (not sealed) covers.<br><br>The process tanks and the storage tanks are open to the atmosphere and operate at atmosphere pressure; therefore, no pressure controls exist. Any overflow that would occur will be contained by a six-inch high asphalt curb and diverted into our own Industrial Waste Water Pretreatment Plant. The tanks are interconnected to allow bypassing from one tank to another as they are individually filled. |

| TANK DESCRIPTION | STANDARD DESIGN | TANK DETAILS | | | DESCRIPTION OF FEED SYSTEMS, SAFETY CUTOFFS, BYPASS SYSTEMS, OVERFLOW CONTROL AND PRESSURE CONTROL |
|---|---|---|---|---|---|
| | | DIMENSIONS | MAXIMUM CAPACITY | SHELL THICKNESS | |
| Six 750-gallon-capacity, open-top, vertical, self-supporting, flat bottom, cylindrical above-ground tanks. Designated as Tanks H-1, H-2, H-3, H-4, H-5, and H-6. | Chem-Tainer Industries, Division of County Plastics Corporation | 55" dia. x 72" high | 740 gallons | 3/8" | Waste solution comes from one 4,000-gallon process tank. When the solution in this tank is declared waste, the on-site pipe-fitter is notified to transfer this solution into the waste storage tanks. This transfer is accomplished with a continuous recirculating process tank pump via valving and schedule 80 CPVC piping. In the event of emergency, the valves may be closed and/or the pump stopped. These storage tanks are covered with loose-fitting (not sealed) covers.<br><br>The process tank and the storage tanks are open to the atmosphere and operate at atmosphere pressure; therefore, no pressure control exists. Any overflow that would occur will be contained by a six-inch high asphalt curb and diverted into our own Industrial Waste Water Pretreatment Plant. The tanks are interconnected to allow bypassing from one tank to another as they are individually filled. |

| TANK DESCRIPTION | STANDARD DESIGN | TANK DETAILS | | | DESCRIPTION OF FEED SYSTEMS, SAFETY CUTOFFS, BYPASS SYSTEMS, OVERFLOW CONTROL AND PRESSURE CONTROL |
|---|---|---|---|---|---|
| | | DIMENSIONS | MAXIMUM CAPACITY | SHELL THICKNESS | |
| One 120,000-gallon-capacity, in-ground, open-top tank. Designated as "Bldg. 14 Sludge Holding Tank". | 1. Originally designed as sewage sludge digestor in January, 1941, by "Russel and Axon" Consulting Engineers.<br>2. Modified for Industrial Waste Sludge Holding Tank by McDonnell Aircraft Company during 1968. | 33' dia. x 21' high. Note: Overflow is at 19' depth as is effective fill level. | 121,555 gal. | Walls are 12 inches minimum thickness reinforced concrete. Bottom is 6 inches thick reinforced concrete. | Sludge collects in settling tanks and is moved by hydraulic pressure to a manually operated pump. The Waste Water Pretreatment Plant operator controls this pump. Ridged piping conducts the settled sludge from the pump to the sludge holding tank. In the event of an emergency, valves may be closed and/or the pump stopped. The holding tank is open to the atmosphere and operates at atmospheric pressure; therefore, no pressure control exists. Any overflow that would occur will be discharged into the influent line of our Pretreatment Plant and thus be collected in the settling tanks (a closed loop system). The overflow outlet is located two feet below the top of the sludge holding tank. |

Comment: 5. Technical information such as design information, adequacy of design and/or design specification should be certified by a registered professional engineer.

Reply: We have enclosed a copy of the Missouri DNR Form SCI. This form contains the requested "Engineer's Certification".

Comment: 6. The references for corrosion and erosion information should be provided or the design life of the tank should be given and certified by an engineer.

Reply: As explained previously in this letter, because of the RCRA recycling exemption, the only tanks of concern to U.S. EPA are 1) Tanks H-1, H-2, H-3, H-4, H-5, H-6 (six 750-gallon polyethylene); 2) Tanks H-12, H-13, H-14, H-15, and H-16 ( five 500-gallon polyethylene). These tanks are used to contain a mixture of nitric and hydrofluoric acids; and 3) Building 14 Sludge Holding Tank.

In reference to the suitability of using polyethylene containers for holding mixtures of nitric and hydrofluoric acids, we cite the following:

Code of Federal Regulations
Title 49
Subchapter C - Hazardous Materials Regulation
Part 173.299

"173.299 Etching acid liquid, n.o.s. (a) Etching acid liquid shall be a mixture of nitric acid, hydrofluoric acid, having nitric acid in concentrations of not more than 60 percent by weight, hydrofluoric acid in concentrations of not less than 4 percent by weight and water not less than 24 percent by weight, and may contain acetic acid. These mixtures must be packed in specification containers as follows:
(1) Specification 12A (178.210 of this subchapter). Fiberboard boxes with Specification 2E (178.24a of this subchapter) inside polyethylene bottles have a minimum wall thickness of 0.030 inch and screw-cap closures. Net weight per bottle may not be over 10 pounds each. The net weight per package may not be more than 40 pounds.
(2) Specification 6D or 37M (non-reusable)(178.102, 178.134 of this subchapter). Cylindrical steel overpack with inside specification 2S or 2SL (178.35 or 178.35a of this subchapter) polyethylene container not over 55 gallons capacity. Specification 37M overpack of over 30 gallon capacity must be constructed of at least 20 gauge steel throughout."

In reference to the suitability of using reinforced concrete for holding sludge with the pH range of 7.0 to 8.0, we attest to the fact that we began holding this type of sludge in this tank in 1969. Since

then, at approximately five-year intervals, we have emptied this tank. When the tank was empty, it was inspected, and no observable change from its 1969 condition was detected.

We hope that this information is sufficient to meet your needs. If you have any questions, please contact us.

Sincerely,

MCDONNELL AIRCRAFT COMPANY

J. C. Patterson

J. C. Patterson, Section Manager
Environmental Pollution Control
Dept. 191C, Bldg. 102, L-3

JCP:bem

EC: J. D. Doyle, Missouri DNR

Form SCT

## STORAGE FACILITY

1. Did the department conduct a preliminary site investigation? [ ] Yes [x] No

2. Any application for a hazardous waste storage facility must include the following information:

| | As Required By |
|---|---|
| A. General Rules Applicable to all Facilities | 10 CSR 25 7.011 |
| B. Storage in Containers and/or | 10 CSR 25 7.050(3) |
| C. Storage in Tanks | 10 CSR 25 7.050(4) |

3. List the type(s) of storage to be utilized at the facility.

| Above Ground Tanks | | Containers | | Underground Tanks | |
|---|---|---|---|---|---|
| Number | Capacity | Number | Capacity | Number | Capacity |
| 13 | 27,000 gal. | 1 | 1,705 gal. | 5 | 13,000 gal. |
| * 1 | 120,000 gal. | 1 | 35,915 gal. | - | -- |
| -- | -- | 1 | 30,300 gal. | - | -- |
| -- | -- | - | -- | - | -- |

* In ground

4. Engineer's Certification

This is to certify that this application has been prepared to comply with the Missou Missouri Hazardous Waste Management Law and all applicable standards, rules, and regulations for hazardous waste storage facilities, specifically 10 CSR 25 7.050. It is my understanding that this facility has been designed to provide adequate protection of the health of humans, and other living organisms.

Registered Professional Engineer Submitting Plans

Name Earl M. Myers Phone (314) 232-2

Name of Consulting Firm Plant Engineering Design Department

Address P.O. Box 516

City St.Louis State MO Zip Code 63166

Signature Earl M Myers Registration No. E-8041 Date 1-14-8

5. Applicant's Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe t the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Operator Signature Robert D Singleton Date 17 JAN. 1983

McDonnell Douglas Corporation Date

analysis on all waste generated, with the exception of "outdated" or discarded "new" materials for which we no longer have a need.

When shipment is a bulk removal, one (1) sample is taken prior to loading.

When shipment is containerized, one (1) sample is taken from each container at the time that the waste is placed into the container.

When "outdated" or discarded "new" materials are shipped, the original analysis, as supplied by the manufacturer, is used.

Comment: 3. The container management practices indicated on page D-15 should provide that the drums will be stored in a closed condition and will be handled in a manner which will prevent spillage. Leaking containers should be repackaged. These additions will also aid compliance with 10 CSR 25-7.050(3)(B).

Reply: "Attachment D-1" is referenced in the last sentence of Section "D-1a Containers", page D-15.

This attachment, entitled "OPERATIONS MANUAL - HAZARDOUS WASTE STORAGE FACILITIES - TRACT I", page 4, paragraph 3.1, states:

> All waste must be in proper DOT specification shipping containers and all containers of hazardous waste shall be inspected, labeled, and sampled by Dept. 191C, Environmental Pollution Control, before they are removed from the generating area and taken to the hazardous waste storage facility.

This will be revised to state:

> All waste must be in closed DOT specification shipping containers and all containers of hazardous waste shall be inspected, labeled, and sampled by Dept. 191C, Environmental Pollution Control, before they are removed from the generating area and taken to the hazardous waste storage facility.

Attachment D-1, page 4, paragraph 3.6 states:

> The operator shall make an inspection of the facility each working day to check for leaky or damaged containers, and for an accumulation of material in the sump. Any spill or leak must be corrected immediately. The material from a leaky container

shall be transferred to a DOT specification shipping container. If the sump has an accumulation in it, locate and stop the source of the accumulation. Collect a sample and have a laboratory analyze it to identify it. Then transfer the material to an appropriate DOT shipping container.

Please note that we have provided five (5) copies of the revised page for inclusion in the original five copies of our Part "B" application dated 06 October 1982.

Comment: 4. All reports, both written and oral, should be submitted to both the Environmental Protection Agency (EPA) and this department. This will achieve compliance with 10 CSR 25-7.011(2)(C)3., (5)(G)4. and 9., (6)(C), and (9)(C).

Reply: The State of Missouri and the U.S. EPA regulations on hazardous waste do not have the same reporting requirements. When these two sets of regulations have duplicate reporting requirements, a duplicate report will be provided.

Immediately upon receipt of your referenced letter, we requested and received a blank copy of the Missouri "Monthly Facility Report - (DNR-HWF-1)". It was our intention to address the use of this form until we were instructed, on 21 December 1982 during your inspection of our facility, that this form was obsolete and a current copy would be forwarded to us.

Comment: 5. The leak detection system outlined in Section D of your application is still being reviewed by the Division of Geology and Land Survey. Specific comments and questions will be sent at a later date.

Reply: The leak detection system was reviewed by DNR during our facility inspection on 21 December 1982. A set of drawings was provided for your review at that time.

Comment: 6. The financial statements provided in Section I are still being reviewed by the department for compliance with 10 CSR 25-7.011(8). Specific comments concerning the applicability of your financial assurance mechanism with the regulations will be sent at a later date.

Reply: This subject was discussed during the DNR inspection of our facility on 21 December 1982. We again request that any comments concerning our financial assurance mechanism be isolated from all other information requests. This will allow us to reduce internal delays in the event that we are are required to involve our Corporate Financial and Law Departments.

Comment: 7. The applicant shall address how compliance with 10 CSR 25-7.011(4)(G) can be documented. There may be additional comments as per comment #5 on this subject.

Reply: During your inspection of our facility on 21 December 1982, we were instructed that the above reference to 10 CSR 25-7.011(4)(G) was in error, and should have been 10 CSR 25-7.050(4)(G).

In regards to tank inspections, we inspect above-ground tanks each working day. The below-ground tanks all contain hydrocarbons. Each of these tanks has been equipped with a leak detection system, and these systems are inspected each working day. These inspections are detailed in our Part "B" submittal, Section "D", "Attachment D-1", page 5, section 4, REGULATIONS - BULK TANKS, paragraph 4.2. The results of these inspections are recorded on "Daily Inspection Log", as shown in Section F, Figure F-1, page F-5.

We hope that this information is sufficient to meet your needs. If you have any questions, please contact us.

Sincerely,

MCDONNELL AIRCRAFT COMPANY

J. C. Patterson

J. C. Patterson, Section Manager
Environmental Pollution Control
Dept. 191C, Bldg. 102, L-3

JCP:bem

EC: R. L. Morby, U.S. EPA

MISSOURI DEPARTMENT OF NATURAL RESOURCES
Waste Management Program
P.O. Box 1368
Jefferson City, Missouri 65102

OFFICE USE ONLY

FACILITY I.D. NO. _____

Confidentiality Requested / /

Confidentiality Granted/Denied / /

Date Public Notice / /

# APPLICATION FORM

## HAZARDOUS WASTE MANAGEMENT FACILITY

1. Name of Operator McDonnell Douglas Corporation

Address P.O. Box 516 Phone (314) 232-3319

City St. Louis State Missouri Zip Code 63166

Ownership Status / / Federal / / State /x/ Private / / Public / / Other

Name of Land Owner McDonnell Douglas Corporation

Address P.O. Box 516 Phone (314) 232-3319

City St. Louis State Missouri Zip Code 63166

Name of Owner (other) Same as above

Address _____ Phone _____

City _____ State _____ Zip Code _____

2. Name of Facility McDonnell Douglas-St. Louis, Tract I

Location of Facility: Nearest City of Town Hazelwood County St. Louis

NE 1/4 SW 1/4 NW 1/4, Section 5

Township 46 . Range 6 . No. of Acres 201

Latitude 38° 45' North Longitude 90° 22' South

3. Type of Hazardous Waste Management Facility (Check Appropriate Box or Boxes)

Storage

- [X] Container or Tanks (Attach Form SCT)
- [ ] Surface Impoundment (Attach Form SSI)
- [ ] Waste Pile (Attach Form SWP)

Treatment

- [ ] Tanks (Attach Form TT)
- [ ] Surface Impoundment (Attach Form TS
- [ ] Incinerator (Attach Form TI)
- [ ] Landfarm (Attach Form TLF)

Disposal

- [ ] Landfill (Attach Form DL)
- [ ] Surface Impoundment (Attach Form DSI)
- [ ] Waste Pile (Attach Form DWP)

4. Is this facility to service more than one generator? [ ] YES [x] NO
More than one type of waste? [*] YES [ ] NO

All applications for a hazardous waste management facility must include the following information:

| | As Required By |
|---|---|
| Engineering Plans | 10 CSR 25-7.011(2)(C) 1.H., I., and 2. |
| Compliance with General Facility Standards | 10 CSR 25-7.011(3) |
| Preparedness and Prevention Plan | 10 CSR 25-7.011(4) |
| Contingency Plan and Emergency Procedures Plan | 10 CSR 25-7.011(5) |
| Compliance with the Manifest, Recordkeeping and Reporting | 10 CSR 25-7.011(6) |
| Operations Manual | 10 CSR 25-7.011(7) |
| Compliance with the Financial Requirements | 10 CSR 25-7.011(8) |
| Closure and Post Closure Plan | 10 CSR 25-7.011(9) |
| Monitoring Plan | 10 CSR 25-7.011(10) |
| Filing Fee (Not to exceed $500 for the entire facility unless a disposal facility, then not to exceed $1,000) | 10 CSR 25-7.011(2)(C) |

List all types of hazardous wastes to be managed at the facility.

NOTE: This list represents the estimated hazardous wastes to be shipped for 1983.

| | Listed Hazardous Waste or Process Description (1) | EPA OR MO DNR No. | CODE (3) | Estimated Quantity (4) Per Month | Units (5) (Gals., lbs., tn., etc.) |
|---|---|---|---|---|---|
| 1 | Waste Acid Solution | D002 | C | 1.59 | tn. |
| | MO Waste ID No. 001 | D007 | E | | |
| 2 | Waste Acid Solution | D002 | C | 8.67 | tn. |
| | MO Waste ID No. 003 | D007 | E | | |
| 3 | Waste Alkaline Solution | D007 | E | 1.78 | tn. |
| | MO Waste ID No. 005 | --- | --- | | |
| 4 | Waste Acid Solution | D002 | C | 0.02 | tn. |
| | MO Waste ID No. 007 | D007 | E | | |
| 5 | Waste Acid Solution | D002 | C | 1.53 | tn. |
| | MO Waste ID No. 008 | D003 | R | | |
| 6 | Waste Acid and Chlorinated Solvent | D002 | C | 0.19 | tn. |
| | MO Waste ID No. 009 | F002 | T | | |
| 7 | Waste Acid Solution | D002 | C | 2.59 | tn. |
| | MO Waste ID No. 010 | D007 | E | | |
| 8 | Waste Acid Solution | D002 | C | 0.15 | tn. |
| | MO Waste ID No. 012 | D007 | E | | |
| 9 | Waste Acid Solution | D002 | C | 0.05 | tn. |
| | MO Waste ID No. 013 | D007 | E | | |
| 10 | Waste Acid Solution | D002 | C | 0.02 | tn. |
| | MO Waste ID No. 014 | D007 | E | | |
| 11 | Waste Acid Solution | D002 | C | 0.11 | tn. |
| | MO Waste ID No. 015 | D007 | E | | |
| 12 | Waste Cadmium Stripping Solution | D006 | E | 0.02 | tn. |
| | MO Waste ID No. 017 | --- | --- | | |
| 13 | Waste Acid Solution | D002 | C | 0.05 | tn. |
| | MO Waste ID No. 018 | D007 | E | | |
| 14 | Waste Acid Solution | D002 | C | 0.05 | tn. |
| | MO Waste ID No. 020 | D007 | E | | |
| 15 | Waste Acid Solution | D002 | C | 0.05 | tn. |
| | MO Waste ID No. 021 | --- | --- | | |
| 16 | Waste Acid Solution | D002 | C | 0.03 | tn. |
| | MO Waste ID No. 022 | D007 | E | | |
| 17 | Waste Acid Solution | D002 | C | 0.12 | tn. |
| | MO Waste ID No. 023 | --- | --- | | |

Continued
(Continue numbering with 35)

| | Listed Hazardous Waste or Process Description (1) | EPA or MO DNR No. | CODE (3) | Estimated Quantity (4) Per Month | Units (5) (Gals., lbs., tn., etc.) |
|---|---|---|---|---|---|
| 38 | Waste Alkaline Solution | D002 | C | 0.28 | tn. |
| | MO Waste ID No. 024 | D007 | E | | |
| 39 | Waste Alkaline Solution | D002 | C | 1.35 | tn. |
| | MO Waste ID No. 025 | D006 | E | | |
| 20 | Waste Alkaline Solution | D003 | R | 0.07 | tn. |
| | MO Waste ID No. 026 | D006 | E | | |
| 21 | Waste Acid Solution | D002 | C | 0.09 | tn. |
| | MO Waste ID No. 027 | D007 | E | | |
| 22 | Waste Potassium Dichromate Solution | D007 | E | 1.17 | tn. |
| | MO Waste ID No. 028 | --- | --- | | |
| 23 | Waste Alkaline Solution | D007 | E | 1.73 | tn. |
| | MO Waste ID No. 029 | --- | --- | | |
| 24 | Waste Alkaline Solution | D007 | E | 1.54 | tn. |
| | MO Waste ID No. 030 | --- | --- | | |
| 25 | Waste Ferric Chloride Solution | D002 | C | 0.88 | tn. |
| | MO Waste ID No. 031 | D007 | E | | |
| 26 | Waste Alkaline Solution | D007 | E | 2.26 | tn. |
| | MO Waste ID No. 033 | --- | --- | | |
| 27 | Waste Acid Solution | D002 | C | 0.07 | tn. |
| | MO Waste ID No. 034 | --- | --- | | |
| 28 | Pretreatment Plant Sludge | F006 | T | 285.73 | tn. |
| | MO Waste ID No. 036 | F019 | --- | | |
| 29 | Water Emulsified Cutting Oil | Listed | --- | 74.44 | tn. |
| | MO Waste ID No. 037 | Waste | --- | | |
| 30 | Solid Hazardous Waste | D008 | E | 23.61 | tn. |
| | MO Waste ID No. 038 | --- | --- | | |
| 31 | Waste Paint Sludge | D007 | E | 7.11 | tn. |
| | MO Waste ID No. 040 | --- | --- | | |
| 32 | Waste Chlorinated Solvents | F001 | T | 10.94 | tn. |
| | MO Waste ID No. 041 | F002 | T | | |
| 33 | Waste Solvents | F003 | I | 12.33 | tn. |
| | MO Waste ID No. 043 | | | | |
| 34 | Waste Metal Cutting Coolant | D007 | E | 0.88 | tn. |
| | MO Waste ID No. 045 | --- | --- | | |

Continued
(Continue numbering with 35)

| | Listed Hazardous Waste or Process Description (1) | EPA or MO DNR No. | CODE (3) | Estimated Quantity (4) Per Month | Units (5) (Gals., lbs., tn., etc.) |
|---|---|---|---|---|---|
| 35 | Waste Paint Stripper | D008 | E | 0.44 | tn. |
| | MO Waste ID No. 046 | F002 | T | | |
| 36 | Waste Scale Remover | D002 | C | 0.30 | tn. |
| | MO Waste ID No. 048 | --- | --- | | |
| 37 | Empty Containers | MK13 | --- | 0.81 | tn. |
| | MO Waste ID No. 050 | --- | --- | | |
| 38 | Waste Sodium Bicarbonate Solution | D004 | E | 0.23 | tn. |
| | MO Waste ID No. 052 | --- | --- | | |
| 39 | Sodium Hydroxide Solids | D002 | C | 0.27 | tn. |
| | MO Waste ID No. 057 | --- | --- | | |
| 40 | Waste Synthetic Fuel | Listed | --- | 0.51 | tn. |
| | MO Waste ID No. 059 | Waste | --- | | |
| 41 | Waste Sodium Hydroxide Solution | D002 | C | 4.77 | tn. |
| | MO Waste ID No. 061 | --- | --- | | |
| 42 | Waste Plating Sludge | D002 | C | 0.07 | tn. |
| | MO Waste ID No. 067 | D006 | E | | |
| 43 | Waste Plating Sludge | D006 | E | 0.34 | tn. |
| | MO Waste ID No. 069 | --- | --- | | |
| 44 | Waste Mold Material | D002 | C | 2.08 | tn. |
| | MO Waste ID No. 075 | D004 | E | | |
| 45 | Waste Plating Sludge | D003 | R | 2.15 | tn. |
| | MO Waste ID No. 078 | D006 | E | | |
| 46 | Waste Plating Sludge | D002 | C | 0.55 | tn. |
| | MO Waste ID No. 079 | D006 | E | | |
| 47 | Waste Pickling Solution | D002 | C | 1.42 | tn. |
| | MO Waste ID No. 082 | D006 | E | | |
| 48 | Waste Scale Conditioner Solution | D002 | C | 0.34 | tn. |
| | MO Waste ID No. 088 | D003 | R | | |
| 49 | Waste Chromic Acid Sludge | D002 | C | 0.02 | tn. |
| | MO Waste ID No. 089 | D006 | E | | |
| 50 | Waste Miscellaneous Acid Sludges | D002 | C | 1.62 | tn. |
| | MO Waste ID No. 091 | D007 | E | | |
| 51 | Waste Miscellaneous Alkaline Sludges | D002 | C | 1.86 | tn. |
| | MO Waste ID No. 092 | D003 | R | | |

Form SCT

## STORAGE FACILITY

1. Did the department conduct a preliminary site investigation? [ ] Yes [x] No

2. Any application for a hazardous waste storage facility must include the following information:

| | As Required By |
|---|---|
| A. General Rules Applicable to all Facilities | 10 CSR 25 7.011 |
| B. Storage in Containers and/or | 10 CSR 25 7.050(3) |
| C. Storage in Tanks | 10 CSR 25 7.050(4) |

3. List the type(s) of storage to be utilized at the facility.

| Above Ground Tanks | | Containers | | Underground Tanks | |
|---|---|---|---|---|---|
| Number | Capacity | Number | Capacity | Number | Capacity |
| 13 | 27,000 gal. | 1 | 1,705 gal. | 5 | 13,000 gal. |
| * 1 | 120,000 gal. | 1 | 35,915 gal. | - | -- |
| -- | -- | 1 | 30,300 gal. | - | -- |
| -- | -- | - | -- | - | -- |

* In ground

4. Engineer's Certification

This is to certify that this application has been prepared to comply with the Missou Missouri Hazardous Waste Management Law and all apolicable standards, rules, and regulations for hazardous waste storage facilities, specifically 10 CSR 25 7.050. It is my understanding that this facility has been designed to provide adequate protection of the health of humans, and other living organisms.

Registered Professional Engineer Submitting Plans

Name Earl M. Myers Phone (314) 232-2

Name of Consulting Firm Plant Engineering Design Department

Address P.O. Box 516

City St.Louis State MO Zip Code 63166

Signature Earl M Myers Registration No. E-8041 Date 1-14-8

5. Applicant's Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe th the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Operator Signature Robert D Douglas Date 17 JAN. 1983

Signature McDonnell Douglas Corporation Date